

09/726548

sub A4

ABSTRACT OF THE DISCLOSURE

The invention discloses a tire forming system including a band forming machine, a shaping forming machine and a belt/tread forming machine, in each of which setting conditions of a tire size can be optionally changed, and having transport means for delivering a semi-fabricated product to each forming machine, wherein there are provided:

(1) inner liner supply means for cutting a sheet-like inner liner material having a width, in which a splice margin is added to a band periphery length, to a length corresponding to a specification width of a formed tire, and supplying the cut inner liner to the band forming machine.

(2) carcass supply means for cutting a sheet-like carcass material having a width, in which a splice margin is added to a band periphery length, to a length corresponding to a specification width of the formed tire, and supplying the cut carcass to the band forming machine;

(3) band rubber parts supply means for injecting a rubber strip from an injection unit, winding the rubber strip around a drum of the band forming machine, and forming, on the basis of its laminated structure, a rubber parts having a profile corresponding to a

specification of the formed tire;

(4) bead supply means for supplying a completed bead corresponding to a specification of the formed tire to the band forming machine through a bead setter;

5 (5) belt supply means for cutting a strip-like belt material, in which plural cords are arranged and rubberized, to predetermined length and angle, mutually splicing edge portions of the plural cut strip pieces to form a belt for one tire, which has a length, a cord
10 angle and a width corresponding to specifications of the formed tire, and supplying the belt to the belt/tread forming machine; and

(6) tread rubber parts supply means for injecting a rubber strip from an injection unit, winding the rubber
15 strip around a drum of the belt/tread forming machine, and forming, on the basis of its laminated structure, a rubber parts having a profile corresponding to a specification of the formed tire.